# Standards of Public Land Health
# Evaluation of 63084 RED LAKE Allotment
# [ 11/16/2010 ]

| Study Area or Assessment Area | UPLAND | | | BIOTIC | | | RIPARIAN | | |
|---|---|---|---|---|---|---|---|---|---|
| | Meets | Monitor an Indicator | Does Not Meet | Meets | Monitor an Indicator | Does Not Meet | Meets | Monitor an Indicator | Does Not Meet |
| 63084-IDSU-A128 | X | | | X | | | N/A | | |

Twenty-two (22) indicators for Rangeland Health were evaluated for public land on the Red Lake allotment, 63084. Ten of these assessed soil site stability, 11 hydrologic functions and 13 assessed biotic integrity. These qualitative assessments in conjunction with quantitative information gathered from previous data collected at the trend study plot locations within the allotment were utilized to make rangeland health determinations. Quantitative evaluations are performed by the Roswell Field Office interdisciplinary teams, which include some or all of the following: ground and vegetative cover and composition, production, frequency and ecological condition. The collections which were initiated in the late 1970's/early 1980's, are scheduled and conducted approximately every 5 years. This allotment is in the "C" (Custodial) category.

This allotment contains 320 acres of public land. The study is located on a Loamy CP-3 ecological site. A majority of the indicators were rated as either "None to Slight" or "Slight to Moderate" departure from the ecological site description. Only the indicator for Invasive Plants was rated as "Moderate" due to the level of encroachment of yucca and cholla.
There are no riparian areas on the public land within this allotment.

**Recommendations:** With the majority of the indicators falling in the None to Slight category or Slight to Moderate, this allotment is rated as "Meeting" the standards for Rangeland Health. Continue the rangeland monitoring studies to insure proper stocking rates are maintained and that the perennial grass cover and good plant composition remains. There is a potential to work with other agencies, such as the New Mexico State Land office or the Natural Resource Conservation Service (USDA-NRCS) to map and discuss the feasibility of implementing a vegetation treatment to reduce the amount of yucca or cholla if warranted.

| RFOs Upland and Biotic Standard Assessment Summary Worksheet | | | |
|---|---|---|---|
| **SITE 63084-IDSU-A128** | | | |
| Legal Land Desc | SWNE 33 0050S 0100E Meridian 23 | Acreage | 320 |
| Ecosite | 070CY109NM LOAMY CP-3 | Photo Taken | Y |
| Watershed | 13050003030 ANCHO | | |
| Observers | TRAUTNER & VINSON | Observation Date | 11/16/2010 |
| County Soil Survey | NM632 LINCOLN | Soil Var/Taxad | |
| Soil Map Unit | 024 | Soil Taxon Name | HARVEY |
| Texture Class | NM632 L | Soil Phase | HARVEY-DARVEY |
| Texture Modifier | NM632 FINE SANDY LOAM | | |
| Observed Avg Annual Precipitation | | Observed Avg Growing Season Precipitation | |
| NOAA Annual Precipitation | | NOAA Growing Season Precipitation | |
| NOAA Avg Annual Precipitation | | NOAA Avg Growing Season Precipitation | |
| Disturbances and Animal Use: | | | |

**Part 2. Attributes and Indicators**

| | | Departure from Ecological Site Description/Ecological Reference Areas | | | | |
|---|---|---|---|---|---|---|
| Attribute | Indicators | Extreme | Moderate to Extreme | Moderate | Slight to Moderate | None to Slight |
| S H | Rills | | | | | X |
| Comments: | | | | | | |
| S H | Water Flow Patterns | | | | | X |
| Comments: | | | | | | |
| S H | Pedestals and/or Terracettes | | | | X | |
| Comments: | slight, but no exposed roots | | | | | |
| S H | Bare Ground | | | | X | |

| | | | | | | |
|---|---|---|---|---|---|---|
| Comments: | Estimated 50% | | | | | |
| S H | Gullies | | | | | X |
| Comments: | | | | | | |
| S | Wind-scoured, Blowouts, and/or Deposition Areas | | | | | X |
| Comments: | | | | | | |
| H | Litter Movement | | | | X | |
| Comments: | A little movement in the innerspaces | | | | | |
| S H B | Soil Surface Resistance to Erosion | | | | X | |
| Comments: | | | | | | |
| S H B | Soil Surface Loss or Degradation | | | | | X |
| Comments: | | | | | | |
| H | Plant Community Composition and Distribution Relative to Infiltration and Runoff | | | | | X |
| Comments: | | | | | | |
| S H B | Compaction Layer | | | | | X |
| Comments: | | | | | | |
| B | Functional/Structural Groups | | | | X | |
| Comments: | Grasses dominated by three-awn, shrubs by yucca | | | | | |
| B | Plant Mortality/Decadence | | | | | X |
| Comments: | | | | | | |
| H B | Litter Amount | | | | X | |
| Comments: | less than 5% litter | | | | | |
| B | Annual Production | | | | X | |
| Comments: | Within 60% of expected | | | | | |
| B | Invasive Plants | | | X | | |
| Comments: | Yucca and cholla encroachment | | | | | |
| B | Reproductive Capability of Perennial Plants | | | | | X |
| Comments: | | | | | | |
| S | Physical/Chemical/Biological Crusts | | | | | X |
| Comments: | Physical crusts | | | | | |
| B | Wildlife Habitat | | | | | X |

| | | | | | | |
|---|---|---|---|---|---|---|
| Comments: | | | | | | |
| B | Wildlife Populations | | | | | X |
| Comments: | | | | | | |
| B | Special Status Species Habitat | | | | | |
| Comments: | Not applicable | | | | | |
| B | Special Status Species Populations | | | | | |
| Comments: | Not applicable | | | | | |

**Part 3. Summary**

A. Indicator Summary - Each of the indicators are associated with one or more of the attributes below. An indicator is placed in a category (columns) above and summed for each of the Standard Attributes.

| Standard Attribute | | Extreme | Moderate to Extreme | Moderate | Slight to Moderate | None to Slight |
|---|---|---|---|---|---|---|
| S | Soil | 0 | 0 | 0 | 3 | 7 |
| H | Hydrologic | 0 | 0 | 0 | 5 | 6 |
| B | Biotic | 0 | 0 | 1 | 4 | 6 |

B. Attribute Summary. In this table, the Extreme and Extreme to Moderate columns in the table above are merged for the *Does not Meet* column, Moderate becomes *May Need More Info*, and Slight to Moderate and None to Slight merge to form the *Meets* columns. Values from the table are summarized below. Space is provided for rationale of the determination. This space should most certainly be used when the determination by the ID team conflicts with the summarized values. Provide the sources of information that lead to the determination. X out the appropriate box for each attribute to denote final agreed upon determination by the ID team.

| Attribute | Rationale | Does Not Meet | May Need More Info | Meets |
|---|---|---|---|---|
| Soil | | 0 | 0 | 10 |
| Hydrologic | | 0 | 0 | 11 |
| Biotic | | 0 | 1 | 10 |

Site Notes: Species noted: three awn dominates, sagebrush, yucca, cactus, cholla, blue grama present. Fair amount of winterfat and broom snakeweed.

# Determination of Public Land (Rangeland) Health for 63084 RED LAKE

The Record of Decision (ROD) for the New Mexico Standards for Public Land Health and Guidelines for Livestock Grazing Management (dated January 2001) adopted three Standards for Public Land Health. These are (1) Upland Sites Standard, (2) Biotic Communities, including Native, Threatened, Endangered and Special Status Species Standard and (3) Riparian Sites Standard.

The ROD also established a process for the BLM Field Offices for implementation. Through a public participation process, the Roswell Field Office developed and adopted indicators to use in conjunction with existing monitoring data to assess these standards.

Field assessment worksheets and other available data that evaluated the local indicators were completed for this allotment. Based on these assessments, it is my determination that the public land within 63084, Red Lake, meets the (1) Upland Sites Standard and (2) Biotic Communities, including Native, Threatened, Endangered and Special Status Species Standard. There are no public land Riparian areas on this allotment therefore this standard was not addressed.

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| /s/ J. Howard Parman | 03/03/2011 |
| Assistant Field Manager | Date |